

SBFS STATE BOARD OF FIRE SERVICES

This 18-member board, appointed by the Governor, is the state level forum for addressing fire protection issues of statewide concern. The Board approves technical and performance standards for fire service training, accredits curriculum, establishes policy for State Fire Training, and advises the State Fire Marshal on regulations as well as serving as an appeals board for the application of OSFM regulations. The board meets quarterly each year.

STEAC STATEWIDE TRAINING AND EDUCATION ADVISORY COMMITTEE

This is an advisory committee to the State Board of Fire Services. The committee makes recommendations to the State Board of Fire Services on policies and procedures for the administration and delivery of fire service training programs in the California Fire Service Training and Education System (CFSTES) and the Fire Service Training and Education Program (FSTEP).

The STEAC Committee is the vehicle utilized to assist with implementation of any changes within the CFSTES or FSTEP.

PACE I PEER ASSESSMENT FOR CERTIFICATION EVALUATION

A committee designed to enhance the professional credibility of position certifications earned through the California Fire Service Training and Education System (CFSTES). Comprised of fire chiefs, both active and retired, company officers such as training officers, fire marshals and fire officers, and community college representatives.

The committee audits applications for certification, including course records, certificates, resumes, and other correspondence and makes recommendations on certification eligibility.

The committee meets quarterly, on the last Thursday in January, April, July, and October. CFSTES applicants should keep this in mind when sending in documents for position certification.

PACE II PEER ASSESSMENT FOR CREDENTIAL EVALUATION

A committee designed to enhance the professional credibility of fire service personnel registered to instruct certified and noncertified courses adopted by the Office of the State Fire Marshal (OSFM) and the State Board of Fire Services (SBFS). Comprised of fire chiefs, both active and retired, company officers such as training officers, registered Master Instructors, and community college representatives.

The committee audits all applications for instructor registration: course records, certificates, resumes, correspondence and other communications relative to individual requests for instructor registration.

The committee meets quarterly on the first Thursday in January, April, July, and October.

PACE III POLICY ALTERNATIVES FOR COURSE EQUIVALENCIES

A committee designed to recognize the life experience and career education of fire service professionals. Comprised of the California State Fire Marshal, a designated Deputy Chief, the Division Chief of State Fire Training, and Co-Chair of the Statewide Training and Education Advisory Committee or a representative from the State Board of Fire Services.

The committee evaluates certification applicants who believe they meet the instructional requirements for certification through life experience and career education but who have been prevented from progressing within a certification track.

The committee meets twice a year at a conveniently located State Fire Marshal's office or branch.

CFA CALIFORNIA FIRE ACADEMY, ASILOMAR CAMPUS

836 Asilomar Blvd The California Fire Academy, Asilomar Campus, is located at the
Pacific Grove famous Asilomar Conference Center in Pacific Grove - situated on
California 93950 105 acres of beautiful forest, sand dunes, and ocean front. The
(408) 646-4240 academy is cosponsored and managed by State Fire Training in
FAX (408) 655-8400 cooperation with Monterey Peninsula College.
nrodda@earth.mpc.cc.ca.us

On the Asilomar Campus, the Academy conducts specialized training courses and advanced officer programs of statewide impact. These courses and programs are offered in a concentrated residential setting that is most conducive to intensive learning. On-campus programs are targeted to middle and top-level fire officers, fire service instructors, technical professionals, and representatives from allied professions. Any person with substantial involvement in fire prevention and control, emergency medical services, or fire-related emergency management activities is qualified for academy courses.

The central location of the Academy promotes an information exchange between students from various areas of the state, and between small and large departments. Experience has confirmed the value of this interchange.

Travel: Students traveling by automobile will find easy access from Highway 101 to Highway 1 to Highway 68, which ends at the Asilomar Conference Center. The more adventuresome may wish to exit Highway 1 at Monterey and follow the shoreline to the Conference Center. Either route is well marked with "Asilomar" signs. On-grounds parking is provided at no charge.

Students traveling by air will find several airlines connecting to Monterey Peninsula Airport. An airport shuttle service will deliver students directly to the Administrative Building at the Conference Center for check-in.

Accommodations: The Conference Center operates on a room-and-board basis, with classroom facilities provided as part of the package. Academy students are usually housed in the Fireside complex completed in 1981. Rooms, which are priced for double occupancy, are furnished with a double bed, a pull-down bed, desk, fireplace, and full bath.

Rooms are not equipped with a television or telephone.

Meals: Food is served cafeteria style from a fixed menu. Fire Academy students receive “prime dinners.” Vegetarian meals are arranged by special request. Meals are scheduled daily beginning with Sunday night’s dinner and continuing through Friday’s box lunch.

Registration: Registration for Fire Academy classes is handled on a first-come, first-served basis. Waiting lists are established in the same manner.

Students are requested to register at least 90 days prior to a class. Attendance is confirmed by submitting full class payment 45 days prior to the class. Failure to secure your registration by full payment will cause your reservation to be forfeited to the next person on the waiting list.

Cancellations: Cancellation of a secured registration, if done 45 days prior to the start of a class, will not be subject to a penalty fee. Because the Asilomar Conference Center’s contract for housing requires the Academy to confirm housing needs, the student is financial liable for the housing costs. In the event a replacement student cannot be found prior to the start of class, the original student is responsible for the course registration and housing fees and is not entitled to a full refund.

Attendance: Students must attend all class sessions and successfully complete the evaluation criteria to receive a certificate.

Materials Fees: Any student manual, supplement, or textbook required for a course will be an additional charge.

GENERAL INFORMATION

The following pages contain descriptions and requirements for courses available through the California Fire Service Training and Education System (CFSTES) and the Fire Service Training and Education Program (FSTEP).

Within each fire service topic, CFSTES and FSTEP courses related to the topic are listed.

CFSTES courses lead to certification. These courses are delivered either at the California Fire Academy or regionally through Accredited Regional/Local Academies, community colleges and/or local sponsors. There are eleven categories of certification courses: 1) Driver/Operator, 2) EMS, 3) Fire Command, 4) Fire Fighter, 5) Fire Instructor, 6) Fire Investigation, 7) Fire Management, 8) Fire Mechanic, 9) Fire Prevention, 10) Hazardous Materials, and 11) Public Education.

FSTEP courses that, although they do not lead to a certification level, are available for regional delivery. Students successfully completing the course may receive a State Fire Marshal certificate of completion. There are twelve categories of noncertification courses: 1) Driver/Operator, 2) EMS, 3) Fire Command, 4) Fire Fighting/Rescue, 5) Fire Instructor, 6) Fire Investigation, 7) Fire Management, 8) Fire Prevention, 9) Hazardous Materials, 10) ICS, 11) Pipeline Safety, and 12) Public Education. These courses are delivered regionally by registered FSTEP instructors through local fire agencies.

Section Three lists specialty courses for fire officers and include topics in the areas of EMS, prevention, investigation, safety, and command.

A few course offerings are limited to delivery at the Asilomar Campus of the California Fire Academy only. These restricted courses are designated in this catalog as CFA class deliveries only.

QUALITY COMMITMENT

*Each staff member of
State Fire Training
is Committed to providing
the highest level of Service possible
in the Delivery and Support
of our Mission.*



CFSTES CALIFORNIA FIRE SERVICE TRAINING AND EDUCATION SYSTEM

CFSTES is a system of course delivery and certification. CFSTES outlines certification “tracks” for both volunteer and career fire fighters. The system identifies a “core” of certification prerequisites such as experience requirements, completing a specific course of study, and passing appropriate certification examinations. The certification tracks range from Fire Fighter to Chief Officer. There are forty-nine classes which make up the course study requirements in order to qualify for certification in eleven career tracks.

CFSTES is a self-supported program with all revenue coming from class registration/materials and position certification fees. This revenue provides staff, office space and equipment, operates the bookstore, funds advisory committee meetings and curriculum projects when possible.

The majority of CFSTES classes are delivered throughout the state in conjunction with the California community college system. Fees generated from student enrollments off-set the cost of delivering the classes.

FSTEP FIRE SERVICE TRAINING AND EDUCATION PROGRAM

FSTEP is a program through which the OSFM assists local fire agencies in meeting their specific training needs. There are forty-one courses available through the FSTEP program ranging from live fire training to auto extrication. The OSFM coordinates the delivery through the use of “approved” curricula and registered instructors.

The FSTEP series is designed to provide both volunteer and career fire fighters with hands-on training in fire fighting, extrication, rescue, vehicle and pump operations. Courses are delivered through registered instructors and may be custom tailored by the instructor to meet each department’s specific needs. Upon successful completion of each course, a California State Fire Marshal’s certificate of completion will be issued by the instructor.

FSTEP program coordination and materials are provided free of charge to local fire agencies. To schedule a course in your area contact State Fire Training at (916) 445-8444.

FSTEP Course: BASIC EMERGENCY VEHICLE OPERATIONS

Hours: 16

Designed For: All fire service personnel

Description: This course provides students with information on driver responsibilities. Topics include: Vehicle laws, defensive driving techniques for emergency vehicles, techniques of basic inspection and maintenance for emergency vehicles, and actual driving exercises under simulated emergency conditions.

Prerequisites: None

Certification: N/A



FSTEP Course: BASIC PUMP OPERATIONS

Hours: 16

Designed For: All fire service personnel

Description: This course provides the student with the information, theory, methods, and techniques for operating fire service pumps. Subjects include: Types of pumps, engine and pump gauges, maintenance, unsafe pumping conditions, pressure relief devices, cooling systems, water supplies, drafting, field hydraulics, and pumping operations.

Prerequisites: None

Certification: N/A



CFSTES Course: FIRE APPARATUS DRIVER/OPERATOR 1A
Emergency Vehicle Operations

Hours: 40

Designed For: Fire service emergency response personnel

Description: This course is designed to provide the student with information on driver techniques for emergency vehicles and techniques of basic inspection and maintenance of emergency vehicles, including actual driving exercises under simulated emergency conditions.

Prerequisites: None

Certification: Fire Apparatus Driver/Operator I

CFSTES Course: **FIRE APPARATUS DRIVER/OPERATOR 1B**
Pump Operations

Hours: 40

Designed For: Fire service emergency response personnel

Description: This course provides the student with information, theory, methods, and techniques for operating fire service pumps. Subjects include: Types of pumps, engine and pump gauges, maintenance, unsafe pumping conditions, pressure relief devices, cooling systems, water supplies, drafting, field hydraulics, and pumping operations.

Prerequisites: None

Certification: Fire Apparatus Driver/Operator I



FSTEP Course: **SPECIALIZED APPARATUS COURSE**

Hours: 16

Designed For: All fire service personnel

Description: A course intended to provide the student with the information and skills necessary to operate specialized pieces of apparatus. Each course is custom tailored, depending on the specific piece of apparatus, and the needs of the department.

Prerequisites: None

Certification: N/A

CFSTES Course: EMT-I BASIC

Hours: 127 plus certifying examinations

Designed For: Prehospital emergency medical personnel

Description: This course is designed to prepare personnel to render prehospital basic life support services, including cardiopulmonary resuscitation, with emphasis on field application, practices, and techniques vital to the interaction of EMT-I personnel with all levels of emergency medical personnel.

Prerequisites: None

Certification: EMT-I

**CFSTES Course: EMT-I REFRESHER**

Hours: 24 plus certify examinations

Designed For: Personnel who hold an EMT-I certificate

Description: The refresher course consists of not less than 24 hours of classroom instruction, including simulation. Topics include a review of the subjects and skills specified within the basic course and any new developments of emergency medical services or procedures.

Prerequisites: Possess either a **current** EMT-I certificate or an EMT-I certificate that has been expired for **no more than four years**

Certification: EMT-I

**CFSTES Course: EMT-I INSTRUCTOR TRAINING**

Hours: 40

Designed For: Personnel interested in teaching the EMT-I programs. This course delivery is limited to the California Fire Academy at Asilomar.

Description: The instructor orientation workshop is designed to prepare EMS trainers to deliver EMT-I training classes. Topics of discussion include the state approved EMT-I curriculum, statutes and regulations governing EMT-I programs, OSFM policies and procedures, and review of instructional techniques and classroom management. Teaching demonstrations are required of all participants.

Prerequisites: Appropriate EMS license/certification (contact State Fire Training for details), Fire Instructor 1A/1B, 2 years EMS experience

Certification: EMT-I instructor registration

FSTEP Course: EMERGENCY CARE OF THE SICK & INJURED

Hours: 45

Designed For: All fire service personnel

Description: A manipulative and technical training course in emergency care procedures, including: Examining the victim, observing surrounds, determining case histories, maintaining an airway, performing resuscitation and cardiopulmonary resuscitation, controlling bleeding, treating cerebrovascular injuries, treating shock, treating seizures, childbirth, performing manual lifts and carries, and improvising and arranging transportation. This course meets present public safety emergency care requirements for fire service personnel.

Prerequisites: None

Certification: N/A

CFSTES Course: COMMANDING THE INITIAL RESPONSE

Hours: 16

Designed For: Company officers, training officers, and senior fire fighters who serve as incidents commanders at initial response incidents

Description: This NFA hand-off course is designed to give the participant the information and skills necessary to establish command, perform size-up, develop and implement an action plan, transfer command and organize an incident using an effective fireground management system.

Prerequisites: None

Certification: Volunteer Fire Officer

**CFSTES Course: FIRE COMMAND 1A**
Command Principles for Company Officers

Hours: 40

Designed For: First-in incident commander and company officers

Description: This course provides instruction and simulation time pertaining to the initial decision and action processes at a working fire. The course includes areas of discussion on the fire officer, fire behavior, fire ground resources, operations, and management.

Prerequisites: I-220 (Basic ICS)

Certification: Fire Officer

**CFSTES Course: FIRE COMMAND 1B**
Hazardous Materials Command Principles for Company Officers

Hours: 40

Designed For: First-in incident commander and company officers

Description: This course provides instruction in tactics and strategies and scene management principles for incidents involving hazardous materials. The course includes areas of discussion on identification and hazard mitigation, decontamination, protective clothing, environmental concerns, and legal issues.

Prerequisites: Fire Command 1A, I-220 (Basic ICS)

Certification: Fire Officer

CFSTES Course: FIRE COMMAND 2A
Command Tactics at Major Fires

Hours: 40

Designed For: Chief officers, company officers, and training officers

Description: This course prepares the officer to use management techniques and the Incident Command System when commanding multiple alarms or large suppression forces.

Prerequisites: Fire Command 1A, I-220 (Basic ICS)

Certification: Chief Officer



CFSTES Course: **FIRE COMMAND 2B**
Management of Major Hazardous Materials Incidents

Hours: 40

Designed For: Chief officers, company officers, and training officers

Description: This course includes areas of discussion on information and data bases, organizations, agencies and institutions involved in hazardous materials response and research, planning for your community's hazardous materials problems, legislation, litigation and liabilities of hazardous materials responses.

Prerequisites: Fire Command 1B, Fire Command 2A, I-220 (Basic ICS)

Certification: Chief Officer



CFSTES Course: **FIRE COMMAND 2C**
High Rise Fire Tactics

Hours: 40

Designed For: Chief officers and experienced company officers

Description: This course is approached from a system basis and is applied to both small and large high-rise buildings. Topics include: Prefire planning, building inventory, problem identification, ventilation methods, water supply, elevators, life safety, strategy and tactics, application of the ICS, and specific responsibilities. Case studies and simulation are used.

Prerequisites: Fire Command 2A, I-220 (Basic ICS)

Certification: Chief Officer

CFSTES Course: **FIRE COMMAND 2D**
Planning for Large Scale Disasters

Hours: 40

Designed For: Chief officers, company officers, and planners

Description: Key topics include: Principles of disaster planning and management, fire service emergency plans, emergency operations centers, case studies of various natural and man made disasters, and roles of local, state and federal OES and emergency management agencies, discussion of multi-hazard and ICS planning techniques, and principles of exercising emergency management staffs.

Prerequisites: Fire Command 2A, I-220 (Basic ICS)

Certification: Chief Officer



CFSTES Course: **FIRE COMMAND 2E**
Wildland Fire Fighting Tactics

Hours: 40

Designed For: Fire officers who have command responsibilities at wildland fires

Description: This course contains such topics as California's wildland fire problem, wildland fire safety, weather effects, wildland fuels, wildland fire behavior, initial attack methods, using support equipment, using topographic maps, strategy and tactics, and air attack operations. Involves class participation and simulation.

Prerequisites: Fire Command 2A, I-220 (Basic ICS)

Certification: Chief Officer



CFSTES Course: **PREPARING FOR INCIDENT COMMAND**

Hours: 16

Designed For: Company officers, training officers, and senior fire fighters who serve as incident commanders at initial response incidents

Description: This NFA hand-off course provides the concepts of Incident Command as they apply to initial response incidents, and the ability to relate fire behavior preincident information, fire flow and proper communications in order to effectively command an incident with emphasis on fire fighter safety.

Prerequisites: None

Certification: Volunteer Fire Officer

FSTEP Course: **AUTO EXTRICATION**

Hours: 16

Designed For: All fire service personnel

Description: This course provides students with hands-on experience in the procedures and systems utilized during an automobile extrication. Subjects covered include: Auto extrication size-up, types of incidents, safety precautions, ICS for auto extrication, types of hand and power tools, removing windows, opening doors, removing roofs, pulling steering wheels, moving foot pedals, raising dashboards, pulling seats, stabilization of vehicles, and simulated rescues of trapped victims.

Prerequisites: None

Certification: N/A



FSTEP Course: **CALIFORNIA'S I-ZONE**

Hours: 36

Designed For: Fire prevention officers, fire marshals, fire chiefs, and fire administrators

Description: This course focuses on the prevention and mitigation of urban/wildland fires and will give local fire administrators an in-depth background of this state's recurrent fire problem. Topics include: Model code enforcement, building standards and technology, fuel modification and behavior, as well as risk, responsibility and community programs.

Prerequisites: None

Certification: N/A



FSTEP Course: **CONFINED SPACE RESCUE AWARENESS**

Hours: 7

Designed For: All fire service personnel

Description: This course provides instruction in identifying a permit and nonpermit required confined space, the hazards associated with confined spaces, target industries and hazards, state regulations, communications, and equipment requirements. This course does not qualify participants to make permit required entries.

Prerequisites: None

Certification: N/A

FSTEP Course: **CONFINED SPACE RESCUE OPERATIONS**

Hours: 32

Designed For: All fire service personnel

Description: This course provides information to identify confined spaces and permit-required confined spaces, evaluate hazardous atmospheres, determine adequate levels of personal protection, techniques needed for hazard mitigation, identify basic operational positions, understand responsibilities set by CAL-OSHA, and prepare for confined space rescue operations.

Prerequisites: Confined Space Rescue Awareness

Certification: N/A



FSTEP Course: **EMERGENCY RESPONSE TO ELECTRIC VEHICLES**

Hours: 8

Designed For: All emergency response personnel

Description: This course will demystify the emerging electric vehicle technology and will examine fundamental response procedures. Topics include: Zero emission mandate, technology, and shock and hazardous materials concerns. A variety of fire/crash emergency scenarios will be considered. Students will have a hands-on opportunity with available electric vehicles in their area.

Prerequisites: None

Certification: N/A



FSTEP Course: **FIRE CONTROL 1**
Basic Fire Chemistry

Hours: 16

Designed For: All beginning fire service personnel

Description: This course is a basic overview of fire chemistry and fire behavior designed for the beginning or a volunteer fire fighter. Includes: Classes of fire, fundamentals of heat transfer, fire characteristics of materials, products of combustion, hazardous and explosive materials, extinguishing agents, size-up, and exposure protection.

Prerequisites: None

Certification: N/A

FSTEP Course: **FIRE CONTROL 2**
Basic Operations - Structural

Hours: 16

Designed For: All beginning fire service personnel

Description: A hands-on course designed to provide the student with information, methods and techniques for operating basic fire fighting tools and carrying out basic fire fighting evolutions. Areas covered include: Hose, nozzles, and fittings, ground ladders, self-contained breathing apparatus, pump operations in theory, pump operations in the field, and the use of fire extinguishers.

Prerequisites: None

Certification: N/A



FSSTEP Course: **FIRE CONTROL 3**
Structural Fire Fighting

Hours: 16

Designed For: All fire service personnel

Description: This course utilizes the burning of buildings to provide students with hands-on fire fighting experience in: Fire behavior within a building, ventilation, SCBA use and survival techniques, interior fire attack, exterior fire attack, and basic fire investigation as it relates to fire fighting.

Prerequisites: Fire Control 2 (recommended)

Certification: N/A



FSSTEP Course: **FIRE CONTROL 4**
Oil and Gas Fire Fighting

Hours: 8-16

Designed For: All fire service personnel

Description: This course utilizes live fire situations to hands-on experience in combating fire involving LPG and flammable liquids. Topics include: Flammable liquid and gas fire behavior, safety, extinguishing agents, transportation fires, water flow requirements, and live fire fighting.

Prerequisites: None

Certification: N/A

FSSTEP Course: **FIRE CONTROL 4A**
Flammable Gases Fire Fighting

Hours: 6

Designed For: All fire service personnel

Description: This course utilizes the flammable liquids and gas (FLAG) trailer to generate live fire

situations and provide hands-on experience in combating fires involving flammable gases. Subjects include: Flammable gas fire behavior, safety, control methods and extinguishing agents, transportation fires, and water flow requirements.

Prerequisites: None

Certification: N/A



FSTEP Course: **FIRE CONTROL 4B**
Flammable Liquids Fire Fighting

Hours: 6

Designed For: All fire service personnel

Description: This course utilizes the flammable liquids and gas (FLAG) trailer to generate live fire situations and provide hands-on experience in combating flammable and combustible liquid fires. Subjects include: Fire behavior, safety, control methods and extinguishing agents, transportation fires, and water flow requirements.

Prerequisites: None

Certification: N/A



FSTEP Course: **FIRE CONTROL 5**
Aircraft Rescue and Fire Fighting

Hours: 16-24

Designed For: All fire service personnel

Description: This course provides students with the methods and techniques necessary for crash fire rescue services at airports. Subjects include: Utilizing conventional fire and specialized CFR apparatus, CFR extinguishing agents, types of aircraft, standby procedures, aqueous film forming foam, dual agent systems, and operations at crash scenes. The 24-hour class delivery includes a live burn.

Prerequisites: None

Certification: N/A

FSTEP Course: **FIRE CONTROL 6**
Wildland Fire Fighting Essentials

Hours: 16

Designed For: All fire service personnel

Description: This course provides information, methods, and techniques for the utilization of the California Fire and Rescue Mutual Aid Plan, Incident Command System, wildland fire

fighting strategy and tactics, structure triage, terminology, survival skills and operating safely in a wildland fire fighting incident.

Prerequisites: None

Certification: N/A



FSTEP Course: **FIRE CONTROL 7**
Wildland Fire Fighting

Hours: 16

Designed For: All fire service personnel

Description: This course provide hands-on experience in fighting wildland or agricultural crop fires. Exercises include: Fire behavior, hand tools, helicopter support, dozer operations, mobile pumping, backfiring/burning out safety, progressive hose lays, water tender shuttle, initial attack, and wildland fire investigation.

Prerequisites: Fire Control 6 (recommended)

Certification: N/A



CFSTES Course: **FIRE FIGHTER I**

Hours: 259 plus manipulative performance testing

Designed For: Entry-level fire fighters

Description: This courses provides the fire fighter with the knowledge and skills to safely perform, under minimal supervision, essential and advanced fireground tasks, basic rescue operations, basic fire prevention and fire investigation tasks, and to use, inspect, and maintain fire fighting and rescue equipment.

Prerequisites: None

Certification: Fire Fighter I

CFSTES Course: FIRE FIGHTER II

Hours: 111 plus manipulative performance testing

Designed For: Probationary fire fighters

Description: This course expands upon the depth of knowledge provided to those fire service personnel certified to the Fire Fighter I level. It includes information, techniques and methods of essential and advanced fire ground tasks, rescue operations, inspection and maintenance of hand, power, and hydraulic tools, techniques for educating the public.

Prerequisites: Fire Fighter I

Certification: Fire Fighter II

**CFSTES Course: FIRE FIGHTER SAFETY AND SURVIVAL**

Hours: 16

Designed For: Individuals responsible to assume command of responding resources (typically company officers) and have a knowledge of leadership, fire hazards and causes, fire fighting strategy and tactics, fire chemistry, and safety practices

Description: This NFA hand-off course examines significant areas of fire fighter fatalities and injuries associated with emergency and nonemergency situations. The course addresses causes of injuries and methods to implement recommended solutions.

Prerequisites: None

Certification: Volunteer Fire Officer

**FSTEP Course: LOW ANGLE RESCUE**

Hours: 16

Designed For: All fire service personnel

Description: Designed to equip the student with the techniques and methods for using rope, webbing, hardware friction devices, and litters in low angle rescue situations. Areas covered include: Rope and related equipment, anchor systems, safety lines, stretcher lashing and rigging, mechanical advantage systems and single line and two line rescue systems.

Prerequisites: None

Certification: N/A

FSTEP Course: PERSONAL WATERCRAFT RESCUE OPERATIONS

Hours: 16

Designed For: Water rescue personnel

Description: This course provides the skills needed to operate a personal watercraft (PWC) and perform rescue in river and flood situations. Safety, course philosophy, and PWC terminology are covered. "In water" experience for students include how to read dynamics flow for safety travel, perform self rescue and victim rescue operations, along with executing pre/postinspections of the PWC.

Prerequisites: Swiftwater Rescue

Certification: N/A



FSTEP Course: **RESCUE SYSTEMS 1**
Basic Heavy Rescue

Hours: 40-45

Designed For: All emergency response personnel

Description: Key topics include: Team organization, rescue and environmental considerations, use of ropes, knots, rigging and pulley systems, descending, rappelling, and belaying tools and techniques, subsurface rescue techniques, use of cribbing, wedges, cutting/prying and hydraulic tools, use of fire service ladders in specialized rescue situations, and day and night simulated rescue exercises.

Prerequisites: Fire Fighter I or equivalent training

Certification: N/A



FSTEP Course: **RESCUE SYSTEMS 1 INSTRUCTOR COURSE**

Hours: 40

Designed For: Potential Rescue Systems 1 Instructors

Description: This course provides the potential instructor with an overview of the course, criteria for building teaching props, safety considerations for the instructor and student, useful tips and insight for course delivery, instructional criteria and requirements.

Prerequisites: Rescue Systems 1, Basic ICS
Instructor 1A and Instructor 1B recommended

Certification: N/A

FSTEP Course: **RESCUE SYSTEMS 2**
Advanced Rescue Skills

Hours: 40

Designed For: All fire service and allied emergency response personnel

Description: Provides advanced heavy rescue system techniques. Key topics include structural building types, wood and mechanical shores, crib capacities, floor weight calculations, building search, confined space considerations, damaged structure hazard assessment, use of small power and hand tools, air bags, and USAR ICS.

Prerequisites: Rescue Systems 1, Basic ICS

Certification: N/A



FSTEP Course: **RINGS OF FIRE**
Fire Prevention & Fire Suppression of Scrap Tire Piles

Hours: 8

Designed For: All fire service Personnel

Description: This class gives information on the growing problem of scrap tire storage throughout California. The class includes innovations in the recycling industry, environmental impact, fire prevention, scientific studies, preincident planning, tactics and fire suppression strategies, as well as fire fighter safety.

Prerequisites: None

Certification: N/A



FSTEP Course: **RIVER AND FLOOD WATER RESCUE**

Hours: 16

Designed For: All fire service personnel

Description: This course is intended for the training of fire service personnel in water rescue techniques. Topics include: Swift water rescue, submerged vehicles, drownings, use of engine/truck company equipment for water rescue, use of rafts and boats, and underwater search and recovery.

Prerequisites: None

Certification: N/A

FSTEP Course: **TRENCH RESCUE**

Hours: 16

Designed For: All fire service personnel

Description: This course is designed to train fire service personnel in hands-on application of the techniques necessary to safely effect a rescue from an excavation or trenching cave-in. Topics include: Critical considerations while responding to trenching emergencies, evaluation of cave-in scenes, basic life support procedures and temporary protection for victims, specialized tool usage, shoring techniques, and below grade rescue safety procedures.

Prerequisites: None

Certification: N/A

CFSTES Course: **FIRE INSTRUCTOR 1A**
Instructional Techniques, Part 1

Hours: 40

Designed For: Company officers and personnel preparing for a training officer position

Description: This is the first of a two-course series. Topics include: The Occupational Analysis, course outline, concepts of learning, levels of instruction, behavioral objectives, lesson plan development, psychology of learning, and instructor evaluation. Student teaching demonstrations are required of all.

Prerequisites: None

Certification: Fire Officer, Fire Instructor I, and Public Education Officer II



CFSTES Course: **FIRE INSTRUCTOR 1B**
Instructional Techniques, Part 2

Hours: 40

Designed For: Company officers and personnel preparing for a training officer position

Description: This is the second in a two-course series. Topics include: Preparing course outlines, establishing levels of instruction, constructing behavioral objectives and lesson plans, developing instructional aids, fundamentals of testing and measurements, test planning, evaluation techniques and tools. Student teaching demonstrations are required of all.

Prerequisites: Fire Instructor 1A

Certification: Fire Officer, Fire Instructor I, and Public Education Officer II



CFSTES Course: **FIRE INSTRUCTOR 2A**
Techniques of Evaluation

Hours: 40

Designed For: Instructors and supervisors who are responsible for evaluating performance

Description: This course provides the instructor and/or supervisor with the techniques of evaluation. It includes: Construction of written (technical knowledge) and performance (manipulative skills) tests, as well as test planning, test analysis, test security, and evaluation of test results to determine instructor and student effectiveness. Essential course for writing valid, objective tests.

Prerequisites: Fire Instructor 1A, Fire Instructor 1B

Certification: Fire Instructor II

FIRE INSTRUCTOR

CFSTES Course: **FIRE INSTRUCTOR 2B**

Group Discussion Techniques

Hours: 40

Designed For: Instructors, training officers, and management personnel who must lead discussions or staff meetings

Description: This course is designed to develop leadership skills. Group dynamics, problem-solving techniques, and interpersonal relations are utilized in staff meetings, brainstorming sessions, and conference meetings. Skills are developed for conducting formal public meetings, panel discussions, and forums.

Prerequisites: Fire Instructor 1A, Fire Instructor 1B

Certification: Fire Instructor II and Chief Officer* (*If applied for and taken prior to 7/1/96)



CFSTES Course: **FIRE INSTRUCTOR 2C**

Employing Audio/Visual Aids

Hours: 40

Designed For: Personnel involved in the design and delivery of instructional programs

Description: This course covers the principles and selection of media in the instructional process, employment of basic and advanced forms of instructional media, use of computers in the instructional process, and individualized instruction programs. Teaching demonstrations are required of all participants.

Prerequisites: Fire Instructor 1A, Fire Instructor 1B

Certification: Fire Instructor II



CFSTES Course: **FIRE INSTRUCTOR 3**

Master Instructor

Hours: 40

Designed For: Trainers of trainers. This course delivery is limited to the California Fire Academy at Asilomar.

Description: This course provides information necessary to conduct the Fire Instructor 1A and 1B courses and gives additional instruction in classroom communications. This course is mandatory for a person who wishes to teach Instructor 1A or 1B. Teaching demonstrations are required of all participants.

Prerequisites: Fire Instructor 1A and 1B, Fire Instructor 2A, 2B, and 2C

Certification: Fire Instructor III

CFSTES Course: INSTRUCTIONAL TECHNIQUES FOR COMPANY OFFICERS

Hours: 16

Designed For: Company officers and fire fighters responsible for in-service instruction and training

Description: This NFA hand-off course covers basic instructional concepts and techniques, effective communication, teaching from lesson plans, and methods of instruction with an emphasis on skills training and adult learning.

Prerequisites: None

Certification: Volunteer Fire Officer

**Course: REGIONAL INSTRUCTOR ORIENTATION**

Hours: 8

Designed For: Personnel interested in teaching any CFSTES accredited courses

Description: This course is designed to provide instructors who will deliver OSFM training programs with an overview of CFSTES, instructor registration requirements, how to set up a return courses, tracks, instructor responsibilities, and curriculum development process.

Prerequisites: None

Certification: Regional Instructor registration

FSTEP Course: **EXPLOSIVES RECOGNITION AND RECONNAISSANCE**

Hours: 40

Designed For: Fire investigators and law enforcement personnel

Description: Designed to instruct on the identification, description, and evaluation of explosives and fireworks, and to cover applicable laws and regulations. Stresses legal preplanning for EOD incidents, bomb threat incident response blast mitigation, scene safety and security, evacuation protocols and scene search techniques. Does not involve handling of any explosives.

Prerequisites: Employment with a public safety agency or response to EOD incidents

Certification: N/A



CFSTES Course: **FIRE AND ARSON DETECTION**

Hours: 16

Designed For: Fire fighters and fire investigators involved in fire investigation

Description: This NFA hand-off course covers determining the point of origin and probable cause, recognizing indications of possible arson, preserving the fire scene and evidence for investigative purposes, and basic procedures relative to conducting a fire investigation.

Prerequisites: None

Certification: Volunteer Fire Officer



CFSTES Course: **FIRE INVESTIGATION 1A**
Fire Origin and Cause Determination

Hours: 40

Designed For: Fire fighters, fire investigators, and law enforcement officers assigned to fire investigation

Description: This course provides the participants with an introduction and basic overview of fire scene investigation. The focus of this course is to provide information on fire scene indicators and to determine the fire's origin.

Prerequisites: None

Certification: Fire Officer and Fire Investigator I

CFSTES Course: **FIRE INVESTIGATION 1B**
Techniques of Fire Investigation

Hours: 40

Designed For: Fire fighters and fire investigation personnel

Description: This course provides a deeper understanding of fire investigation and builds on Fire Investigation 1A. Topics include: The juvenile fire setter, report writing, evidence preservation and collection, interview techniques, motives, and fire fatalities.

Prerequisites: Fire Investigation 1A

Certification: Fire Investigator I



CFSTES Course: **FIRE INVESTIGATION 2A**
Criminal and Legal Procedures

Hours: 40

Designed For: Fire investigation personnel

Description: This course provides the information to successfully investigate, apprehend, and convict arsonists and focuses heavily on the legal case preparation. Topics include interviewing/interrogating suspects, search/seizure, warrants, courtroom demeanor, working with your district attorney's office. This course will prepare the participants for the courtroom.

Prerequisites: Fire Investigation 1A, Fire Investigation 1B

Certification: Fire Investigator II



CFSTES Course: **FIRE INVESTIGATION 2B**
Field Case Studies

Hours: 40

Designed For: Fire and law enforcement officers responsible for fire investigation and courtroom appearances

Description: This course provides advanced instruction in fire scene investigation, case preparation and courtroom presentation. Topics include: Review of fire scene photography, sketching, evidence collection, interviewing and interrogation, and extensive use of simulations for developing and presenting an arson case.

Prerequisites: Fire Investigation 1A, Fire Investigation 1B, Fire Investigation 2A

Certification: Fire Investigator II

CFSTES Course: **FIRE MANAGEMENT 1**

Management/Supervision for Company Officers

Hours: 40

Designed For: Company officers or fire fighters preparing for the position of company officer

Description: This course prepares or enhances the first line supervisor's ability to supervise subordinates. It introduces key management concepts and practices utilized and includes discussions about decision making, time management, leadership styles, personnel evaluations and counseling guidelines.

Prerequisites: None

Certification: Fire Officer



CFSTES Course: **FIRE MANAGEMENT 2A**

Organizational Development and Human Relations

Hours: 40

Designed For: Chief officers, company officers, staff officers, training officers, and other fire service managers

Description: This course provides information on how to make the transition from supervisor to manager. It offers sound management principles in preparation for more intensified training in specific disciplines. Topics of discussion include internal and external influences, personality traits of your fire fighters, managing human relations, group dynamics, conflict solution and more.

Prerequisites: Fire Management 1

Certification: Chief Officer



CFSTES Course: **FIRE MANAGEMENT 2B**

Fire Service Financial Management

Hours: 40

Designed For: Chief officers, company officers, staff officers, and other fire service managers

Description: This course is designed to provide insight into the cyclical nature of budgeting and financial management. As a management course, the student will become familiar with essential elements of the financial planning, budget preparation, budget justification, and budget controls.

Prerequisites: Fire Management 1, Fire Management 2A

Certification: Chief Officer

CFSTES Course: **FIRE MANAGEMENT 2C**
Personnel and Labor Relations

Hours: 40

Designed For: Chief officers, company officers, staff officers, and other fire service managers

Description: This course is designed to provide a fire manager with advanced knowledge and insight of fire personnel, human resource, diversity management, legal mandates, labor relations and related areas. Methodology will include presentations, case study, exercises and focused discussions.

Prerequisites: Fire Management 1, Fire Management 2A

Certification: Chief Officer



CFSTES Course: **FIRE MANAGEMENT 2D**
Master Planning

Hours: 40

Designed For: Chief officers, company officers, fire service managers, city managers/county administrative officers and planners

Description: This course provides participants with information and discussion centering around program planning, master planning, forecasting, system analysis, system design, policy analysis and others.

Prerequisites: Fire Management 1, Fire Management 2A

Certification: Chief Officer



CFSTES Course: **FIRE MANAGEMENT 2E**
Contemporary Issues and Concepts

Hours: 40

Designed For: Chief officers, company officers, and functional managers

Description: This course provides an overview of contemporary management issues and concepts. Key topics include: Governmental relations, changing settings/policy formation, program management, personnel, labor relations, and legal environment.

Prerequisites: Fire Management 2A, Fire Management 2B

Certification: Chief Officer, Fire Instructor III and Fire Prevention Officer III

CFSTES Course: **FIRE SERVICE SUPERVISION**
Increasing Personal Effectiveness

Hours: 16

Designed For: Company officers or other individuals responsible for supervising personnel or managing programs and projects

Description: This NFA hand-off course reviews basic skills and techniques that will assist the individual to improve personal effectiveness. Topics include: Managerial style and personal performance, time management, and personal professional development planning.

Prerequisites: None

Certification: Volunteer Fire Officer



CFSTES Course: **FIRE SERVICE SUPERVISION**
Increasing Team Effectiveness

Hours: 16

Designed For: Company officers or other individuals responsible for supervising personnel

Description: This NFA hand-off course is designed to meet the needs of fire service supervisors and program managers by focusing on improving the manager's skills in relating with others. Topics include: Motivating others, interpersonal communications, counseling, group dynamics, and conflict resolution.

Prerequisites: None

Certification: Volunteer Fire Officer



CFSTES Course: **VOLUNTEER FIRE SERVICE MANAGEMENT**

Hours: 16

Designed For: Company officers or other individuals responsible for supervising personnel or managing programs and projects

Description: This NFA handoff course provides participants with an overview and introduction to managing within a volunteer service environment. Discussion includes topics of management principles and techniques, planning, organizing and controlling, problem solving, motivating and much more.

Prerequisites: None

Certification: Volunteer Fire Officer

CFSTES Course: **FIRE MECHANIC 1**
Fire Pumps and Accessories

Hours: 40

Designed For: Entry-level fire apparatus mechanics

Description: This course provides the fire apparatus mechanic with the skills necessary to maintain, overhaul, test, and troubleshoot fire pumps and accessories.

Prerequisites: None

Certification: Fire Mechanic I



CFSTES Course: **FIRE MECHANIC 2A**
Fire Apparatus Electrical Systems

Hours: 40

Designed For: Advanced-level fire apparatus mechanics

Description: This course covers advanced electrical and electronic systems currently being used on fire apparatus.

Prerequisites: Fire Mechanic 1

Certification: Fire Mechanic II



CFSTES Course: **FIRE MECHANIC 2B**
Allison Transmissions

Hours: 40

Designed For: Advanced-level fire apparatus mechanics

Description: This course covers introduction, general construction, and application of Allison Transmission. Hands-on activities include complete tear down, sub-assembly tear down, hydraulics, power flows, and complete transmission rebuild. Troubleshooting and maintenance is covered also.

Prerequisites: Fire Mechanic 1

Certification: Fire Mechanic II

CFSTES Course: **FIRE MECHANIC 2C**
Aerial Apparatus

Hours: 40

Designed For: Advanced-level fire apparatus mechanics

Description: This course covers physical principles of construction, testing, and preventative maintenance of aerial devices commonly found in fire service.

Prerequisites: Fire Mechanic 1

Certification: Fire Mechanic II

CFSTES Course: **BUILDING CONSTRUCTION FOR FIRE SUPPRESSION FORCES**
(Principles of Wood and Ordinary Construction)

Hours: 16

Designed For: Fire personnel of all ranks

Description: This NFA hand-off course provides an introduction to basic construction principles and the special characteristics of wood and ordinary construction as they concern the fire service. The primary emphasis is on improving the fire officer's ability to ensure fire fighter safety by recognizing common causes and indicators of failure or other hazards related to building construction.

Prerequisites: None

Certification: Volunteer Fire Officer



CFSTES Course: **BUILDING CONSTRUCTION FOR FIRE SUPPRESSION FORCES**
(Principles of Noncombustible and Fire Resistive Construction)

Hours: 16

Designed For: Fire personnel of all ranks

Description: This NFA hand-off course provides an introduction to basic construction principles and the special characteristics of noncombustible and fire-resistive construction as they concern the fire service. The primary emphasis is on improving the fire officer's ability to ensure fire fighter safety by recognizing common causes and indicators of failure or other hazards.

Prerequisites: None

Certification: Volunteer Fire Officer



CFSTES Course: **CONDUCTING BASIC FIRE INSPECTIONS**

Hours: 16

Designed For: New or prospective fire prevention inspectors

Description: This NFA hand-off course covers inspection techniques and procedures of conducting an inspection, common electrical hazards, inspecting heating and cooking equipment, and fire detection and suppression sprinkler systems.

Prerequisites: None

Certification: Volunteer Fire Officer

CFSTES Course: **FIRE PREVENTION 1A**
Fire Inspection Practices

Hours: 40

Designed For: Fire prevention, suppression, public education, and fire investigation personnel

Description: This course provides fundamental information regarding the history and philosophy of fire prevention, organization, and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with fire safety education and detection and suppression system.

Prerequisites: None

Certification: Fire Officer, Fire Prevention Officer I and Public Education Officer I



CFSTES Course: **FIRE PREVENTION 1B**
Code Enforcement

Hours: 40

Designed For: Fire prevention, suppression, public education, and fire investigation personnel

Description: This course provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with fire safety education and detection and suppression systems.

Prerequisites: Fire Prevention 1A

Certification: Fire Officer, Fire Prevention Officer I and Public Education Officer I



CFSTES Course: **FIRE PREVENTION 1C**
Flammable Liquids and Gases

Hours: 40

Designed For: Fire prevention, suppression, public education, and fire investigation personnel

Description: This course focuses on the special hazards associated with flammable and combustible liquids and gases. Some topics of discussion include: Bulk storage and handling, transportation of flammable gases and liquids and more.

Prerequisites: Fire Prevention 1A, Fire Prevention 1B

Certification: Fire Prevention Officer I

CFSTES Course: **FIRE PREVENTION 2A**
Fire Protection Systems and Building Components

Hours: 40

Designed For: Fire prevention officials and allied safety professionals

Description: This course provides the most up-to-date information on laws and regulations pertaining to systems, description, installations and problems relating to fire protection systems. Topics of discussion include: Smoke and fire detectors, fire alarm equipment, building components, assemblies and devices, fire doors and basic hydraulic calculations for sprinkler systems.

Prerequisites: Fire Prevention 1A, Fire Prevention 1B, Preclass study of UBC, Occupancy Classification Table and NFPA pamphlets 72A and 72E

Certification: Fire Prevention Officer II



CFSTES Course: **FIRE PREVENTION 2B**
Interpreting the UBC and CCR - Titles 19 and 24

Hours: 40

Designed For: Fire prevention personnel and allied fire safety professionals

Description: This course provides the participants with extensive, in-depth information about the fire and life safety standards of buildings as they relate to Titles 19 and 24. Topics for discussion include: Types of construction, construction methods and materials, interior finishes, roof coverings, occupancy and more.

Prerequisites: Fire Prevention 1A, Fire Prevention 1B, OSFM California Building Code

Certification: Fire Prevention Officer II



CFSTES Course: **FIRE PREVENTION 2C**
Special Hazard Occupancies

Hours: 40

Designed For: Fire prevention officials and allied safety professionals

Description: This course introduces the participants to more unique or unusual prevention challenges. Topics include: Industrial ovens, cleaning and finishing processes, welding, refrigeration systems, medical gases, fireworks and much more.

Prerequisites: Fire Prevention 1A, Fire Prevention 1B, Fire Prevention 1C

Certification: Fire Prevention Officer II

CFSTES Course: **FIRE PREVENTION 3A**
Hydraulic Sprinkler Calculations

Hours: 40

Designed For: Fire prevention officials and plan checkers

Description: This course offers an explanation and analysis of the functions and capabilities of a

hydraulically calculated sprinkler system. Participants will learn and practice with the various methods used to perform hydraulic calculations.

Prerequisites: Fire Prevention 1A, Fire Prevention 1B, High School Algebra or College Math

Certification: Fire Prevention Officer III



CFSTES Course: **FIRE PREVENTION 3B**
Plan Checking

Hours: 40

Designed For: Fire prevention officials and allied professionals responsible for plan review

Description: This course provides hands-on training. Topics include: Codes, standards and local amendments, site-plan review, building construction and characteristics, fire protection equipment, multi-family occupancies, commercial buildings, care facilities, drinking/dining facilities, shopping malls, and high rise buildings.

Prerequisites: Fire Prevention 2B, OSFM California Building Code

Certification: Fire Prevention Officer III



FSTEP Course: **MOTION PICTURE/TELEVISION FIRE SAFETY OFFICER**

Hours: 24

Designed For: Fire personnel, special effects technicians, film production safety and stunt coordinators, line producers, location managers, and film commissioners

Description: This course provides a basic knowledge of film production safety. Topics include: Filming and fire code permits, licensing, the role of the safety officer, fire safety hazards associated with lighting generators, electrical cabling, set construction, studio vs. warehouse filming, pyrotechnic special effects law and regulations, and stunt safety. This course incorporates pyrotechnic special effects and stunt demonstrations. Guest speakers are also a part of the program.

Prerequisites: None

Certification: N/A

FSTEP Course: **OSFM CALIFORNIA BUILDING CODE**

Hours: 24

Designed For: New fire prevention inspectors and building officials

Description: This course is designed to acquaint fire department inspectors and building officials with the structure, organization, and content of the Health and Safety Code, California Building Code (UBC/T-24/UFC), and the State Fire Marshal's nonbuilding regulations

(Title 19). Instruction includes: How to use these reference documents governing the design, construction, and maintenance of buildings in California. Also included is an overview of the adoption process for state laws and regulations, and the enforcement responsibilities of local fire and building officials.

Prerequisites: Prevention 1A (recommended), Prevention 1B (recommended)

Certification: N/A

HAZARDOUS MATERIALS

CFSTES Course: **HAZARDOUS MATERIALS 1A**
Basic Chemistry of Hazardous Materials

Hours: 40

Designed For: Hazardous materials emergency responders

Description: This course provides an intensive introduction to the nature and behavior of inorganic and organic chemicals. Various laws of chemistry are discussed as they apply to organic compounds, flammable liquids and gases, and other types of hazardous materials.

Prerequisites: OSFM recognized/approved Hazardous Materials First Responder (Operations Level)

Certification: Hazardous Materials Technician and Hazardous Materials Specialist



CFSTES Course: **HAZARDOUS MATERIALS 1B**
Applied Chemistry, Field Identification of Chemicals

Hours: 40

Designed For: Hazardous materials emergency responders

Description: This course teaches students how to apply information learned in Hazardous Materials 1A. Students are instructed in the use of field monitoring and detection devices, sample collection equipment, and field identification testing procedures for verifying, identifying, and classifying unknown chemicals.

Prerequisites: Hazardous Materials 1A

Certification: Hazardous Materials Technician and Hazardous Materials Specialist



CFSTES Course: **HAZARDOUS MATERIALS 1C**
Incident Considerations

Hours: 40

Designed For: Hazardous materials emergency responders

Description: This course provides an introduction to the haz mat Incident Command System, concepts associated with haz mat response activities, and an in depth study of incident specific considerations influencing haz mat emergencies. Students are introduced to site safety planning, contingency planning, protective action options, and meteorological considerations.

Prerequisites: Hazardous Materials 1A, Hazardous Materials 1B

Certification: Hazardous Materials Technician and Hazardous Materials Specialist

CFSTES Course: **HAZARDOUS MATERIALS 1D**

Tactical Field Operations

Hours: 40

Designed For: Hazardous materials emergency responders

Description: This course provides the student with “hands on” training in haz mat confinement and control operations including diking, dams, absorbent materials, methods and procedures of plugging, patching, sampling, and over packing. Students are presented with an opportunity to utilize chemical protective equipment and decontamination methods and procedures. Information on other tactical considerations such as haz mat triage, sabotage, preservation of evidence, and EMS considerations is also provided.

Prerequisites: Hazardous Materials 1A, Hazardous Materials 1B, Hazardous Materials 1C

Certification: Hazardous Materials Technician and Hazardous Materials Specialist

CFSTES Course: **HAZARDOUS MATERIALS 1E**

This course has been deleted from the Hazardous Materials Specialist series. Course content is included in the remaining hazardous materials courses.



CFSTES Course: **HAZARDOUS MATERIALS 1F**
Specialized Mitigation Techniques

Hours: 40

Designed For: Hazardous materials emergency responders

Description: This module is an intensive “hands on” introduction to specialized mitigation techniques employed by the Hazardous Materials Specialist. Instruction includes plugging, patching, and repairing railroad tank cars, intermodel tanks, and highway cargo tank cars, advanced chemical field identification testing procedures, and fixed facility repair considerations.

Prerequisites: Hazardous Materials 1A, Hazardous Materials 1B, Hazardous Materials 1C, Hazardous Materials 1D

Certification: Hazardous Materials Specialist

HAZARDOUS MATERIALS

CFSTES Course: **HAZARDOUS MATERIALS 1G**

Advanced Field Operations

Hours: 40

Designed For: Hazardous materials emergency responders

Description: This module brings together all of the information presented in modules 1a-1f in an environment of “hands on” full scale exercises. The students will be evaluated for their ability to perform as a member of a Haz Mat team in a series of simulated haz mat incidents.

Prerequisites: Hazardous Materials 1A, Hazardous Materials 1B, Hazardous Materials 1C, Hazardous Materials 1D, Hazardous Materials 1F

Certification: Hazardous Materials Specialist



FSTEP Course: **HAZARDOUS MATERIALS FIRST RESPONDER (AWARENESS LEVEL)**

Hours: 8

Designed For: Fire prevention personnel, fire inspectors, and fire department support staff

Description: Hazardous Materials notification and reporting requirements for Fire Department personnel who may witness or discover a Hazardous Materials Leak, spill, or discharge. Meets the requirements of CFR 29 1910.120 and CCR Title 8.

Prerequisites: None

Certification: N/A



FSTEP Course: **HAZARDOUS MATERIALS FIRST RESPONDER (OPERATIONS LEVEL)**

Hours: 16-24

Designed For: Fire department personnel who may respond to releases or potential releases of hazardous materials as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release.

Description: Defensive tactics to contain the release from a safe distance and keep it from spreading and prevent exposures without trying to stop the release. Meets and exceeds the requirements of CFR 29 1910.120 and CCR Title 8.

Prerequisites: None

Certification: N/A

FSTEP Course: **HAZARDOUS MATERIALS FIRST RESPONDER OPERATIONAL, DECONTAMINATION**

Methods of Decontamination of Hazardous Materials

Hours: 8

Designed For: Hazardous material emergency response personnel

Description: This course will provide the haz mat emergency responder with the processes used in decontamination and methods to limit the spread of hazardous materials contamination in a safe and competent manner.

Prerequisites: OSFM recognized/approved Hazardous Materials First Responder (Operations Level)

Certification: N/A



CFSTES Course: **HAZARDOUS MATERIALS INCIDENT ANALYSIS**

Hours: 16

Designed For: All emergency response personnel

Description: This NFA hand-off course covers analyzing and assessing the potential effect of hazardous materials, development of strategies for dealing with haz mat incidents, hazardous materials classifications, labeling and packaging, and regulations and standards.

Prerequisites: None

Certification: Volunteer Fire Officer



CFSTES Course: **HAZARDOUS MATERIALS/THE PESTICIDE CHALLENGE**

Hours: 16

Designed For: All emergency response personnel

Description: This NFA hand-off course provides basic information relative to the handling of fires, spills and other incidents involving pesticides and related agricultural chemicals.

Prerequisites: None

Certification: Volunteer Fire Officer

INCIDENT COMMAND SYSTEM

FSTEP Course: **I-100**

Introduction to ICS

Hours: 3-5 (self study)

Designed For: All personnel whose job may require functioning under the Incident Command System

Description: Students will be provided, through a self-paced text and progress checks, with an introduction to the basic organizational and operational concepts of the Incident Command System. The training emphasizes application to a wide variety of incidents.

Prerequisites: None

Certification: N/A



FSTEP Course: **I-200**

Basic ICS

Hours: 16

Designed For: All emergency personnel (police, fire, EMS)

Description: Consists of Modules 2-6 and meets the training needs of wildland fire personnel by introducing principles associated with the ICS. Topics include: Organization, facilities, resource terminology and the common responsibilities associated with incident or event assignments.

Prerequisites: None

Certification: N/A



FSTEP Course: **I-300**

Intermediate ICS

Hours: 27

Designed For: All emergency personnel (police, fire, EMS)

Description: Consists of Modules 7-11 and expands on Basic ICS by providing more description and detail of the organization and operation of the ICS. Topics include: Management of resources, duties of all positions, examples of how the essential principles are used in incident or event planning.

Prerequisites: I-200

Certification: N/A

FSTEP Course: **I-400**

Advanced ICS

Hours: 22

Designed For: All emergency personnel (police, fire, EMS)

Description: Consists of Modules 12-15. Topics include: Large-scale organization development, roles and relationships of primary staff, considerations related to large and complex incident or event management, area command and the importance of interagency coordination.

Prerequisites: I-200 and I-300

Certification: N/A



FSTEP Course: **S-236**
Staging Area Manager

Hours: Self-Study

Designed For: Individuals qualifying within the ICS as a Staging Area Manager

Description: Students will be provided, through a self-paced written text and a proctored final examination with the information necessary to organize, lay out, manage, and close a staging area.

Prerequisites: I-200, and S-333, S-334, or S-335

Certification: N/A



FSTEP Course: **S-334**
Strike Team Leader-Engine

Hours: 16

Designed For: Individuals qualifying within the ICS as a Strike Team Leader-Engine

Description: This course covers the basic responsibilities of an Engine Strike Team Leader. Subjects covered include: The strike team concept, types of strike teams, preincident responsibilities, assembly and travel, incident arrival and check-in, assigned/available status, out-of-service status, and demobilization/release.

Prerequisites: I-200 and I-300

Certification: N/A

INCIDENT COMMAND SYSTEM

FSTEP Course: **S-339**
Division/Group Supervisor

Hours: 16

Designed For: Individuals qualifying within the ICS as a Division/Group Supervisor

Description: This course teaches the student the management skills necessary to fill the position of Division/Group Supervisor within the framework of ICS. It does not teach tactics or strategy and refers to these only to enhance the particular management technique associated with them.

Prerequisites: I-200, I-300, and S-333, S-334, or S-335

Certification: N/A



FSTEP Course: **S-400**
Incident Commander

Hours: 24

Designed For: Individuals qualifying within the ICS as an Incident Commander

Description: This course delivers information for operating as an Incident Commander within the framework of ICS. Subjects covered include: Incident briefing, incident planning, incident management, unified command, and incident demobilization.

Prerequisites: I-200, I-300, I-400, S-339, S-430, and S-333, S-334, or S-335

Certification: N/A



FSTEP Course: **S-401**
Safety Officer

Hours: 24

Designed For: Individuals qualifying within the ICS as a Safety Officer

Description: This course delivers information for operating as a Safety Officer within the ICS. Subjects covered include: Safety Officer effectiveness, analysis techniques, safety messages, briefings and special reports, and high hazard operations.

Prerequisites: I-200, I-300, I-400, S-339, S-430, and S-333, S-334, or S-335

Certification: N/A

FSTEP Course: **S-430**
Operations Section Chief

Hours: 40

Designed For: Individuals qualifying within the ICS as an Operations Section Chief

Description: This course presents the command, management, and supervision concepts necessary to function as an Operations Section Chief. Topics include: Command principles, organization of the operations section, briefings, developing the operations portion of the incident action plan, and supervising operations.

Prerequisites: I-200, I-300, I-400, S-339, and S-333, S-334, or S-335

Certification: N/A



FSTEP Course: **INCIDENT COMMAND SYSTEM FOR INDUSTRY**

Hours: 4

Designed For: Industrial emergency response teams whose job may require functioning under the Incident Command System, but who will not command the incident.

Description: This course provides an introduction to the basic organizational and operational concepts of the ICS. This course is *not* designed to teach personnel how to command an incident as required in Title 8, California Code of Regulations.

Prerequisites: None

Certification: N/A



CFSTES Course: **NFA'S INCIDENT COMMAND SYSTEM**

Hours: 16

Designed For: Staff and chief officers, fire officers, fire or rescue personnel due for promotion/appointment to officer rank or supervisory position

Description: This NFA hand-off course is designed for fire officers responsible to use, deploy, implement and/or function within an Incident Command System. Topics include: Overview of the ICS structure and expandability, effective command skills, guidelines and scenario practice on how to apply ICS, and guidelines and resource information for setting up and implementing a departmental ICS.

Prerequisites: None

Certification: Volunteer Fire Officer

FSTEP Course: **CONTROL OF FLAMMABLE LIQUIDS EMERGENCIES**

Hours: 6

Designed For: All fire service suppression personnel

Description: This course is designed to provide participants with information on control techniques for fires and spills involving flammable liquids, methods and procedures for utilizing foam equipment properly and current technology regarding flammable liquid fires and spill control.

Prerequisites: None

Certification: N/A



FSTEP Course: **HAZARDOUS LIQUID PIPELINE SAFETY REGULATION**

Hours: 6

Designed For: All California hazardous liquid pipeline operators, local fire suppression and prevention personnel

Description: This course is designed to provide students with information on California and federal laws and regulations relating to hazardous liquid pipelines. The course utilizes lecture, slides, videos and handout material.

Prerequisites: None

Certification: N/A



FSTEP Course: **PIPELINE SAFETY FOR EMERGENCY SERVICE AGENCIES**

Hours: 6

Designed For: Public agency staff who respond to hazardous liquid pipeline emergencies

Description: This course is designed to provide participants with information on types of hazardous liquid pipelines, and methods and procedures for handling pipeline emergencies before, during and after an incident.

Prerequisites: None

Certification: N/A

CFSTES Course: **PUBLIC EDUCATION 1**
Systematic Planning and Communication Skills

Hours: 40

Designed For: Designed for personnel involved with preparing and delivering public education and information programs

Description: Key topics include: Systematic planning process for public education, use of CFIRS to analyze local fire problems, communication skills, program evaluation, working with the media, integrating programs into schools, gaining community support, fire safety for children, interviewing and counseling juvenile firesetters, creating and using audio/visual resources, and idea and resource sharing.

Prerequisites: None

Certification: Public Education Officer I



CFSTES Course: **PUBLIC FIRE EDUCATION PLANNING**

Hours: 16

Designed For: Members of fire service agencies involved in a public agency

Description: This NFA hand-off course covers developing public fire education plans, identification of local fire burn problems, selection of achievable objectives, identifying community resources design, implement and evaluation of local public fire safety programs.

Prerequisites: None

Certification: Volunteer Fire Officer

Course: **ADMINISTRATIVE FIRE SERVICES SUPPORT WORKSHOP**

Hours: 21

Designed For: Fire department administrative personnel

Description: This course presents an orientation similar to the Fire Chiefs' Orientation, but is geared toward the administrative personnel. There is a California focus, with an emphasis on networking and tools/techniques that can be utilized to improve the success of those responsible for supporting a fire chief or chief officer. This is a very informative course involving the most up-to-date information.

Prerequisites: None

Certification: N/A



Course: **DESIGNING AND EVALUATING STANDARDS OF COVER FOR EMERGENCY RESPONSE**

Hours: 40

Designed For: Fire chiefs, chief officers with responsibility for fire station placement, effectiveness, efficiency, and risk assessment for structures

Description: This course provides information on the factors involved in the placement of stations and deployment of apparatus according to contemporary standards in the U.S. Fire Service, methods of analyzing effectiveness and efficiency of both new and existing station locations, methods of conducting and quantifying risk assessment for structures, area conditions, and emergency management areas.

Prerequisites: None

Certification: N/A



Course: **FIRE CHIEFS' EXECUTIVE DEVELOPMENT**

Hours: 40

Designed For: Newly appointed fire chiefs having held the position for less than two years, or chief officers aspiring to the position of Fire Chief

Description: This course presents an executive development program designed for the new Fire Chief. Topics include: Self analysis (style and behavior identification), program justification, team building, structuring, organizing and managing, and working with politicians, city managers and department heads.

Prerequisites: N/A

Certification: N/A

Course: **FIRE CHIEFS' FORUM**

Hours: 40

Designed For: Chief fire officials

Description: This course presents a facilitated forum of contemporary issues confronting today's fire chief. There is a California focus, with emphasis on networking and problem solving. This is a dynamic course, with topics changing yearly.

Prerequisites: None

Certification: N/A



Course: **FIRE CHIEFS' ORIENTATION**

Hours: 40

Designed For: Newly appointed fire chiefs having held the position for less than two years, or chief officers aspiring to the position of Fire Chief

Description: This course presents a facilitated orientation of contemporary issues confronting today's fire chief. There is a California focus, with an emphasis on networking and problem solving. This is a dynamic course with topics changing yearly to reflect changing issues.

Prerequisites: N/A

Certification: N/A



Course: **FIRE PREVENTION PRACTICES IN THE URBAN/WILDLAND INTERFACE**

Hours: 40

Designed For: Fire officers and fire prevention personnel who have responsibility for development mitigation plans, codes and ordinance

Description: This course provides the participant with information on the historical urban/wildland interface fire problem and the legal factors involved with increasing the level of defensibility of structures in the urban/wildland interface, methods of analyzing high fire risk severity zones and area mitigation plans, and designing and implementing site specific fire resistive defensible space.

Prerequisites: None

Certification: N/A

Course: **FIRE PROTECTION SELF ASSESSMENT PRACTICES AND ORGANIZATIONAL EVALUATION**

Hours: 40

Designed For: Fire officers who are responsible for assessing their departments fire defense, efficiency of organization, and level of service to the community

Description: This course provides procedures for the self-assessment process used in evaluating a community's fire defenses and on the categories, criteria, and performance indicators used to define an agency's level of service, evaluating the effectiveness and efficiency of local fire service operations, and preparing and processing information obtained by agencies undergoing self assessment.

Prerequisites: None

Certification: N/A



Course: **LEADERSHIP IN EMS MANAGEMENT**

Hours: 40

Designed For: EMS program managers

Description: This course is designed to provide the participant with current trends in EMS system management, current and potential legal, statutory and regulatory considerations in providing EMS services, and covers the role of a fire service EMS manager in system-wide EMS design, monitoring and evaluating.

Prerequisites: None

Certification: N/A



Course: **PRACTICAL APPLICATIONS OF FIRE BEHAVIOR TACTICS ON WILDLAND FIRES**

Hours: 40

Designed For: Fire officers who have command responsibilities at wildland fires

Description: This course provides the knowledge and observation method used to determine the range of the wild fire's intensity variation and the proper tactics needed for suppression actions based upon wild fire behavior predictions, and methods of using a key-phrase fire behavior language, enabling them to more clearly define and identify the causes and effects of fire intensity changes.

Prerequisites: None

Certification: N/A